

AMENDMENTS TO THE CLAIMS:

Please replace the claims with the claims provided in the listing below wherein status, amendments, additions and cancellations are indicated.

1. (Withdrawn) A medical material for use in therapeutic agent delivery to a tooth or periodontal tissue by means of ultrasonic energy, comprising a mixture of microbubbles and a therapeutic agent consisting of at least one of a plasmid DNA and a drug with a therapeutic effect on a tooth or periodontal disease.

2. (Withdrawn) The medical material as defined in claim 1, which contains said microbubbles in the range of 0.001 to 10 %.

3. (Currently Amended) An agent delivery apparatus for delivering a therapeutic agent to a tooth or periodontal tissue, comprising an ultrasonic transducer having a tip provided with a detachable ultrasonic emitter for emitting an ultrasonic wave to a target site of a tooth or periodontal tissue, and a medical-material ejecting device for supplying to said target site a the medical material as defined in claim 1.
for use in therapeutic agent delivery to a tooth or periodontal tissue by means of ultrasonic energy, comprising a mixture of microbubbles and a therapeutic agent consisting of at least one of a plasmid DNA and a drug with a therapeutic effect on

a tooth or periodontal disease.

4. (Currently Amended) The agent delivery apparatus as defined in claim 3, which further comprises a manual control unit including means for adjusting a the frequency and an intensity of the ultrasonic wave to be generated from said ultrasonic transducer, whereby any ~~either~~ one of a plurality of oscillation directions in said ultrasonic emitter can be selected according to changes of said frequency.

5. (New) The agent delivery apparatus according to claim 3, wherein said ultrasonic emitter has a size ranging from 1 x 0.1 x 0.1 mm to 1 x 1 x 1 cm.

6. (New) The agent delivery apparatus according to claim 3, further comprising an endoscope.

7. (New) The agent delivery apparatus according to claim 3, further comprising an illuminator.

8. (New) The agent delivery apparatus according to claim 4, wherein said frequency ranges from 100 kHz to 10 MHz.

9. (New) The agent delivery apparatus according to claim 4, wherein said intensity ranges from 0.5 to 10 W/cm².

10. (New) The agent delivery apparatus according to claim 3, wherein said ultrasonic emitter is configured to have two oscillation directions corresponding to respective ultrasonic frequencies of said ultrasonic emitter.

11. (New) The agent delivery apparatus according to claim 3, wherein said ultrasonic emitter is configured to have at least two oscillation directions corresponding to respective ultrasonic frequencies of said ultrasonic emitter.

12. (New) The agent delivery apparatus according to claim 3, further comprising a case for said ultrasonic emitter and an illuminator, said illuminator and said medical-material ejecting device being supported by said case.

13. (New) The agent delivery apparatus according to claim 3, further comprising a case for said ultrasonic emitter and an endoscope, said endoscope and said medical-material ejecting device being supported by said case.

14. (New) The agent delivery apparatus according to claim 10, further comprising a manual control unit for adjusting an ultrasonic frequency of the ultrasonic emitter and an intensity of the ultrasonic wave.

15. (New) The agent delivery apparatus according to claim 11, further comprising a manual control unit for adjusting an ultrasonic frequency of the ultrasonic emitter and an intensity of the ultrasonic wave.